

WE CLAIM:

1. A method for conveying information between a data network (DN) and a subscriber's transceiver unit (VTU-R), the method comprising:  
using at least one Very-high-data-rate Digital Subscriber Line, or VDSL, downlink frequency band (D1, D2) for conveying information from the data network to the subscriber's transceiver unit; and

using at least one non-VDSL uplink frequency band (N1) for conveying information from the subscriber's transceiver unit to the data network.

2. A method according to claim 1, further comprising using the at least one non-VDSL uplink frequency band (N1) only if no VDSL uplink bands (U1, U2) are usable

3. A method according to claim 1, further comprising using the at least one non-VDSL uplink frequency band (N1) even at least one VDSL uplink band (U1, U2) is usable.

4. A method according to claim 1, further comprising the transceiver unit negotiating with its peer entity as to whether at least one VDSL uplink band (U1, U2) is usable.

5. A transceiver unit (VTU-R) for Very-high-data-rate Digital Subscriber Line, or VDSL, communication to/from a data network (DN) the transceiver unit comprising:

downlink filter means for using at least one Very-high-data-rate Digital Subscriber Line, or VDSL, downlink frequency band (D1) for conveying information from the data network to the subscriber's transceiver unit; and

uplink filter means (41, 51 - 53, 61 - 62, 71 - 72, 82) for using at least one non-VDSL uplink frequency band (N1) for conveying information from the subscriber's transceiver unit to the data network.

6. A transceiver unit according to claim 5, further comprising uplink filter means (52 - 53, 62) for using at least one VDSL uplink frequency band (U1, U2).

7. A transceiver unit according to claim 5, wherein the uplink filter means comprises a bandstop filter (41) for implementing the non-VDSL uplink frequency band (N1).

8. A transceiver unit according to claim 6, wherein the uplink filter means comprises a first bandpass filter (61) for the non-VDSL uplink band (N1) and at least one second bandpass filter (52 - 53; 62) for at least one VDSL uplink frequency band (U1, U2).

9. A transceiver unit according to claim 8, wherein the uplink filter means comprises a separate bandpass filter (52 - 53) for each VDSL uplink frequency band.

10. A transceiver unit according to claim 6, wherein the uplink filter means comprises a bandstop filter (41, 71, 81).

11. A transceiver unit according to claim 10, further comprising a switchable high-pass filter (72) in series with the bandstop filter (71).

12. A transceiver unit according to claim 10, wherein the bandstop filter (81) comprises at least one switchable coil (82).

13. A transceiver unit according to claim 5, wherein the non-VDSL uplink frequency band (N1) has an upper limit of approximately 138 kHz.

14. A transceiver unit according to claim 5, further comprising means for negotiating with its peer entity as to whether at least one VDSL uplink band (U1, U2) is usable.